In the Claims:

Please amend claims 1, 11, 21, 22, 23, 24, 25, 27, and 28 as follows:

Sub C1

1. A signal processor for converting digital images for use in an imaging system, comprising :

a digital data memory adapted for storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,

a control input for receiving a signal representing a selection of a portion of the image, wherein said selection ranges across said field of view, and

a converter, responsive to said control input, for converting stored digital data in said digital data memory representing the selected portion into digital data representing a planar image for display and for incrementally scanning across said digital data between points.

Sub C2

11. A method of converting a digital image for use in an imaging system comprising the steps of :

storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,

selecting a portion of said image, wherein said selecting step selects said portion across said field-of-view, [and]

converting stored digital data representing the selected portion into digital data representing a planar image for display , and

incrementally scanning from said planar image to another point.

Sub C3

21. A method of converting a digital image for use in an imaging system comprising the steps of:

storing digital data representing a partial spherical image; and

converting digital data representing [a] selected [portion] portions of the partial spherical image into digital data representing [a] planar [view] views for simultaneous display , wherein said selected portions are chosen across said field-of-view.

22. A signal processor for converting digital images for use in an imaging system, comprising:

a digital data memory for storing digital data representing an image having the properties of a circular field of view and objects in the field-of-view being substantially in focus,

a control input for receiving a signal representing a selected viewing angle, wherein said viewing angle is chosen from the angles varying across said field-of-view, and

a converter, responsive to said control input, for processing the stored digital data according to the selected viewing angle , for processing the stored digital data in the direction of another point and outputting a planar image for display.

23. A method for converting digital images for use in an imaging system, comprising the steps of:

storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,

selecting a viewing angle, wherein said viewing angle is chosen from the angles varying across said field-of-view, and

processing, responsive to the selected viewing angle, the stored digital data according to the selected viewing angle and then processing the stored digital data incrementally in the direction of another point to output a planar image for display.

24. A signal processor for use in an imaging system, comprising:

a control input for receiving a signal representing a selection of a portion of an image

having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus , wherein said selection is chosen across said field-of-view, and said signal is generated by a remote alarm ; and

a converter, responsive to the control input, for converting stored digital data representing the selected portion to digital data representing a planar image for display.

25. A memory for a signal processor, comprising:

a data structure, responsive to a control input representing a selection of a portion of an image stored in said memory , wherein said selection is chosen across said field-of-view , said data structure representing an orthogonal set of transformation algorithms which include calibration coefficients which are modified to correct for various lenses; and

a buffer memory adapted to store digital image data for transformation.

27. A memory for a signal processor, comprising:

a data structure, responsive to a control input representing a selection of a portion of an image, said data structure representing an orthogonal set of transformation algorithms wherein the data structure allows image processing to occur for incremental portions between points.

28. A signal processor for converting digital images, comprising:

a memory for storing digital data representing an input image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,

a control input for receiving a signal representing a selection of a portion of the input image, wherein said selection is chosen from across said field-of-view, and

a digital converter, responsive to said control input, for converting stored digital data in said memory representing the selected portion of the input image into digital data representing a planar image, and for converting said stored digital data representing another portion, incrementally different from said first portion in the direction of another point, wherein said

planar image is one of a panned, tilted, rotated and magnified version of the input image.

Please add the following claims:

-- 32. A signal processor according to claim 1, wherein said points comprise first and second camera positions.

33. A method according to claim 11, wherein said point is another camera position.

34. A signal processor according to claim 22, wherein said point is another camera position.

35. A method according to claim 23, wherein said point is another camera position.

36. A memory for a signal processor according to claim 27, wherein said points comprise first and second camera positions.

37. A signal processor according to claim 28, wherein said point is another camera position. --.

REMARKS

The Office Action of May 9, 1996 has been carefully reviewed. The above amendment and following remarks are responsive thereto. While Applicants have amended the above claims, Applicants do not waive any rights to pursue the original claims. Applicants are waiting for a co-pending reissue application to correct the inventorship of U.S. Patent No. 5,185,667. Once the inventorship is corrected, Applicants intend to again pursue the original claims of this application.

The May 9, 1996 Office Action

The Office Action of May 9, 1996 is summarized below:

- Claims 1-31 stand rejected under 35 U.S.C. § 102(e) over U.S. Patent No. 5,185,667 to Zimmermann.